

AMENDMENT UNDER ARTICLE 34

➤ Contents of Amendment

(1) Claims, Page 42, claim 1: Amend

"light-receiving means for receiving reflected light of light applied from said light-emitting means to the detection surface; and state detection means for detecting a state on the detection surface on the basis of the reflected light received by said light-receiving means" to --light-receiving means for receiving reflected light of light applied from said light-emitting means to the detection surface; state detection means for detecting a state on the detection surface on the basis of the reflected light received by said light-receiving means; and cooling means, provided on a second surface of said prism which serves as an exit surface of light to said light-receiving means, for cooling said prism, wherein said state detection means detects moisture produced on the detection surface of said prism which is cooled by said cooling means, on the basis of the specular reflection received by said light-receiving means--.

(2) Claims, Page 42, claim 2: Amend "wherein said light-receiving means receives the specular reflection of the light from the detection surface, as the reflected light, which is returned by said mirror" to --wherein the second surface of said prism serves as

an exit surface of light to said light-receiving means and an incident surface of light from said light-emitting means, and said light-receiving means receives the specular reflection of the light from the detection surface, as the reflected light, which is returned by said mirror--.

(3) Claims, Pages 42 to 43, claim 3: Amend "according to claim 1, characterized by further comprising cooling means for cooling said prism, and a mirror which reflects specular reflection of light applied from said light-emitting means to the detection surface and returns the light to the detection surface through the interior of said prism, wherein said light-receiving means receives the specular reflection of the light from the detection surface, as the reflected light, which is returned by said mirror, and said state detection means detects moisture produced on the detection surface of said prism which is cooled by said cooling means, on the basis of the specular reflection received by said light-receiving means" to --according to claim 2, characterized in that said cooling means comprises a thermoelectric cooling element with one surface serving as a low-temperature-side surface and the other surface serving as a high-temperature-side surface, said thermoelectric cooling element is placed so as to make the low-temperature-side surface serve as the second surface

side of said prism, a heat dissipation member is mounted on the high-temperature-side surface of said thermoelectric cooling element, and said light-emitting means and said light-receiving means are provided so as to extend through said thermoelectric cooling element and said heat dissipation member--.

(4) Claims, Pages 43 to 46: Delete claims 4 to 7. Accordingly, pages 44 to 46 are disappeared.

➤ List of Documents Attached

(1) Claims, Pages 42 to 44

C L A I M S

1. (amended) A detector for detecting a state on a detection surface, characterized by comprising:

a prism which includes a first surface as a detection surface;

light-emitting means for applying light to the detection surface through an interior of said prism;

light-receiving means for receiving reflected light of light applied from said light-emitting means to the detection surface;

state detection means for detecting a state on the detection surface on the basis of the reflected light received by said light-receiving means; and

cooling means, provided on a second surface of said prism which serves as an exit surface of light to said light-receiving means, for cooling said prism,

wherein said state detection means detects moisture produced on the detection surface of said prism which is cooled by said cooling means, on the basis of the specular reflection received by said light-receiving means.

2. (amended) A detector for detecting a state on a detection surface according to claim 1, characterized by further comprising a mirror which reflects specular reflection of light applied from said light-emitting means to the detection surface and returns the light to the detection surface through the

interior of said prism,

wherein the second surface of said prism serves as an exit surface of light to said light-receiving means and an incident surface of light from said light-emitting means, and

said light-receiving means receives the specular reflection of the light from the detection surface, as the reflected light, which is returned by said mirror.

3. (amended) A detector for detecting a state on a detection surface according to claim 2, characterized in that

said cooling means comprises a thermoelectric cooling element with one surface serving as a low-temperature-side surface and the other surface serving as a high-temperature-side surface,

said thermoelectric cooling element is placed so as to make the low-temperature-side surface serve as the second surface side of said prism,

a heat dissipation member is mounted on the high-temperature-side surface of said thermoelectric cooling element, and

said light-emitting means and said light-receiving means are provided so as to extend through said thermoelectric cooling element and said heat dissipation member.

4. (deleted)

5. (deleted)
6. (deleted)
7. (deleted)